

INTERNATIONAL SEARCH REPORT

International Application No
PCT/DK2004/000408

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61L27/38 A61L27/54 A61K35/32 C12N5/06 A61B17/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61L C12N A61F A61B A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/051834 A1 (DOMB ABRAHAM J ET AL) 13 December 2001 (2001-12-13) paragraphs [0005] - [0008], [0010] - [0013], [0016] - [0021], [0024] - [0026] ----- -/--	1-40

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

21 September 2004

Date of mailing of the international search report

18 MAR 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Böhm, I

INTERNATIONAL SEARCH REPORT

International Application No

PCT/DK2004/000408

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 01/06949 A (STORGAARD PETER ; INTERFACE BIOTECH AS (DK); OSTHER KURT (US)) 1 February 2001 (2001-02-01) page 1, lines 4-6 page 3, lines 28-30 page 4, lines 14-31 page 5, lines 26-36 page 6, lines 27-34 page 8, lines 29-38 page 9, lines 8-11 page 11, lines 5-8,36-39 page 18, lines 31-36 sentences 1-26; example 4 sentences 32,33; example 5 claims; figures</p>	1-40
A	<p>DE 100 13 223 A (CO DON AG) 11 October 2001 (2001-10-11) paragraphs [0001] - [0004], [0009], [0014], [0018], [0021], [0022]</p>	1-40
A	<p>ROBINSON D ET AL: "Articular cartilage chondrocytes are more advantageous for generating hyaline-like cartilage than mesenchymal cells isolated from microfracture repairs" 2001, CELL AND TISSUE BANKING, XX, XX, PAGE(S) 23-30 , XP002902414 ISSN: 1389-9333 the whole document</p>	1-26,40
A	<p>WO 02/39946 A (SMITH & NEPHEW INC) 23 May 2002 (2002-05-23) page 2, lines 15-25 page 7, lines 1-12 claims</p>	1-40
A	<p>DE 100 54 857 A (BOHMANN ANTON ; KETTEL EDITH (DE)) 16 May 2002 (2002-05-16) the whole document</p>	1-40
A	<p>DE 39 41 023 A (BIOPLASTY INC) 13 June 1990 (1990-06-13) the whole document</p>	1-40
A	<p>DE 195 40 487 A (SCHULTZ OLAF ; BURMESTER GERD R PROF DR MED (DE); SITTINGER MICHAEL DR) 24 April 1997 (1997-04-24) column 1, lines 17-26 column 2, lines 18-33 claims; examples 1,2</p>	1-40
	-/--	

INTERNATIONAL SEARCH REPORT

International Application No
PCT/DK2004/000408

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 181 908 A (VTS HOLDINGS LTD) 27 February 2002 (2002-02-27) paragraphs [0001], [0002], [0009], [0011] claims	1-40
A	----- US 5 736 372 A (VACANTI CHARLES A ET AL) 7 April 1998 (1998-04-07) column 4, lines 23-67 claims	1-26
A	----- US 5 429 603 A (MORRIS MICHAEL) 4 July 1995 (1995-07-04) the whole document -----	27-39

INTERNATIONAL SEARCH REPORT

International application No.
PCT/DK2004/000408

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1-26,40 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

see annex

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-40 (entirely)

Claims 1-26,40 :

An endoscopic method for treating cartilage or bone defects

Claims 27-39 :

A kit for use in a mehtod [...], the kit comprises two separate containers, the first container comprises the cells and the second container comprises the support material

2. claim: 41 (entirely)

Use of hydroxy apatite as culturing medium for cells such as osteoblasts/osteocytes.

3. claims: 42,43 (entirely)

Claim 42 :

Use of collagen solutions as culturing medium for the cells to be arthroscopically transplanted.

Claim 43 :

Use of collagen solutions as culturing medium for the cells to be endoscopically transplanted.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/DK2004/000408

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2001051834 A1	13-12-2001	US 2001014475 A1	16-08-2001
		US 6637437 B1	28-10-2003
		US 6378527 B1	30-04-2002
		US 2004117033 A1	17-06-2004
		US 2004044408 A1	04-03-2004
		AU 3626700 A	09-10-2000
		CA 2366669 A1	28-09-2000
		EP 1171057 A1	16-01-2002
		WO 0056251 A1	28-09-2000
		US 2002123142 A1	05-09-2002
		US 2002133235 A1	19-09-2002
		US 2002012705 A1	31-01-2002
WO 0106949 A	01-02-2001	AU 6566000 A	13-02-2001
		CA 2378079 A1	01-02-2001
		CZ 20020341 A3	11-09-2002
		WO 0106949 A2	01-02-2001
		EP 1206225 A2	22-05-2002
		EP 1441028 A2	28-07-2004
		JP 2003505143 T	12-02-2003
		NO 20020439 A	28-01-2002
		NZ 517199 A	28-11-2003
		US 2002082623 A1	27-06-2002
		ZA 200200514 A	30-06-2003
DE 10013223 A	11-10-2001	DE 10013223 A1	11-10-2001
		AU 3928701 A	24-09-2001
		CA 2403120 A1	13-09-2002
		WO 0168811 A2	20-09-2001
		EP 1265986 A2	18-12-2002
		US 2003153078 A1	14-08-2003
WO 0239946 A	23-05-2002	AU 3418402 A	27-05-2002
		CA 2426600 A1	23-05-2002
		EP 1339348 A2	03-09-2003
		JP 2004513848 T	13-05-2004
		WO 0239946 A2	23-05-2002
		US 2002112981 A1	22-08-2002
DE 10054857 A	16-05-2002	DE 10054857 A1	16-05-2002
DE 3941023 A	13-06-1990	DE 3941023 A1	13-06-1990
		GB 2227176 A ,B	25-07-1990
		JP 2243160 A	27-09-1990
		JP 2694372 B2	24-12-1997
		NL 8903049 A ,B,	02-07-1990
		US 5571182 A	05-11-1996
		US 5258028 A	02-11-1993
DE 19540487 A	24-04-1997	DE 19540487 A1	24-04-1997
		WO 9715655 A2	01-05-1997
		EP 0801676 A2	22-10-1997
		JP 10511884 T	17-11-1998
		JP 3452366 B2	29-09-2003
		US 6143501 A	07-11-2000
		US 5932459 A	03-08-1999
EP 1181908 A	27-02-2002	US 5759190 A	02-06-1998

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DK2004/000408

PC1/UK2004/000408

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1181908	A	US 5989269 A	23-11-1999
		DE 29724585 U1	16-05-2002
		EP 1181908 A1	27-02-2002
		EP 1384452 A1	28-01-2004
		EP 1459709 A1	22-09-2004
		SI 1006950 T1	31-12-2004
		AT 256443 T	15-01-2004
		AT 263524 T	15-04-2004
		AU 731162 B2	22-03-2001
		AU 4171097 A	19-03-1998
		BR 9711967 A	18-01-2000
		CA 2264138 A1	05-03-1998
		CA 2419644 A1	05-03-1998
		DE 69726896 D1	29-01-2004
		DE 69726896 T2	28-10-2004
		DE 69728569 D1	13-05-2004
		DK 1181908 T3	13-04-2004
		DK 1006950 T3	19-07-2004
		DK 200200177 U1	04-06-2002
		DK 200200178 U1	04-06-2002
		EP 1006950 A2	14-06-2000
		ES 2211722 T3	16-07-2004
		ES 2218697 T3	16-11-2004
		HU 0002980 A2	29-01-2001
		JP 2002502272 T	22-01-2002
		JP 2003159266 A	03-06-2003
		KR 2000035886 A	26-06-2000
		NO 990933 A	26-02-1999
		NZ 334400 A	26-01-2001
		NZ 508145 A	26-07-2002
		NZ 518474 A	26-09-2003
		PL 331834 A1	02-08-1999
		PT 1181908 T	30-04-2004
		PT 1006950 T	31-08-2004
		RU 2214197 C2	20-10-2003
		SK 24099 A3	12-03-2001
		TR 9900437 T2	21-05-1999
		TR 200102871 T2	21-06-2002
		TR 200102883 T2	21-06-2002
		US 2002116014 A1	22-08-2002
		US 6120514 A	19-09-2000
		US 2002116015 A1	22-08-2002
		US 2002151912 A1	17-10-2002
		US 2002091396 A1	11-07-2002
		WO 9808469 A2	05-03-1998
		US 2002173806 A1	21-11-2002
		US 6283980 B1	04-09-2001
		US 2004019361 A1	29-01-2004
		US 2003195532 A1	16-10-2003
US 5736372	A	07-04-1998	
		US 5041138 A	20-08-1991
		AT 142511 T	15-09-1996
		AU 635025 B2	11-03-1993
		AU 5556890 A	16-11-1990
		CA 2051663 A1	18-10-1990
		DE 69028524 D1	17-10-1996
		DE 69028524 T2	13-02-1997
		DK 469070 T3	30-09-1996

PCY/ISA/10 (patent family) second (from) 0004

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/DK2004/000408

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5736372	A	EP 0469070 A1	05-02-1992
		ES 2095252 T3	16-02-1997
		JP 6006155 B	26-01-1994
		JP 4505717 T	08-10-1992
		WO 9012603 A1	01-11-1990
		US 5567612 A	22-10-1996
		US 5804178 A	08-09-1998
		US 5759830 A	02-06-1998
		US 6309635 B1	30-10-2001
		US 2002115165 A1	22-08-2002
		AT 139432 T	15-07-1996
		CA 1340581 C	08-06-1999
		DE 3751843 D1	25-07-1996
		DE 3751843 T2	12-12-1996
		EP 0299010 A1	18-01-1989
		JP 7102130 B	08-11-1995
		JP 1501362 T	18-05-1989
		WO 8803785 A1	02-06-1988
		US 5770193 A	23-06-1998
		US 5770417 A	23-06-1998
US 5429603	A	04-07-1995	
		AU 9027491 A	08-07-1992
		WO 9210225 A1	25-06-1992
		EP 0560831 A1	22-09-1993